The listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A method for manufacturing a semiconductor device, including a heat treatment step of pulsed light irradiation, comprising the steps of:

forming a semiconductor layer over a glass substrate;

forming an insulating layer over the semiconductor layer;

forming separately an island-like light-absorbing layers that are layer over the semiconductor layer with the insulating layer interposed therebetween, said island-like light-absorbing layer being capable of absorbing [[the]] a pulsed light over a glass substrate:

forming a semiconductor layer and an insulating layer overlapping with the semiconductor layer between the glass substrate and the light-absorbing layers; and

performing [[the]] a heat treatment for the semiconductor layer and the insulating layer by selectively heating the light-absorbing layers layer through an irradiation of the pulsed light irradiation.

2. (Currently Amended) A method for manufacturing a semiconductor device, including a heat treatment step of pulsed light irradiation, comprising the steps of:

forming a semiconductor layer over a glass substrate;

forming an insulating film over the semiconductor layer;

forming separately an island-like light-absorbing layer over the semiconductor layer with the insulating film interposed therebetween wherein a layers whose transmission factor of [[the]] a pulsed light by the island-like light-absorbing layer is 70 percent or less over a glass substrate whose and a transmission factor of the pulsed light by the glass substrate is 70 percent or more; and

forming a semiconductor layer and an insulating layer overlapping with the semiconductor layer between the glass substrate and the light-absorbing layers; and

performing [[the]] a heat treatment for the semiconductor layer and the insulating layer by selectively heating the light-absorbing layers layer through the irradiation of the pulsed light irradiation.

3. (Currently Amended) A method for manufacturing a semiconductor device comprising the steps of:

forming a semiconductor layer over a glass substrate;

forming an insulating layer over the semiconductor layer;

forming an island-like light-absorbing layer layers formed over a glass substrate having an insulating surface such that over the semiconductor layer with the insulating layer interposed therebetween wherein a length of one side of the light-absorbing layer is equal to or less than a thickness of the glass substrate; and

forming a semiconductor layer and an insulating layer overlapping with the semiconductor layer between the glass substrate and the light-absorbing layers; and

performing a heat treatment for the semiconductor layer and the insulating layer by selectively heating the light-absorbing layers layer through the irradiation of the pulsed light irradiation.

4. (Currently Amended) A method for manufacturing a semiconductor device comprising the steps of:

forming a semiconductor layer over a glass substrate;

forming an insulating layer over the semiconductor layer;

forming and pattering patterning an island-like light-absorbing layers layer over the semiconductor layer with the insulating layer interposed therebetween, wherein whose a transmission factor of pulsed light by the island-like light-absorbing layer is 70 percent or less such that a length of one side of the light-absorbing layer is equal to or

less than a thickness of a glass substrate, over the glass substrate whose and a transmission factor of the pulsed light by the glass substrate that is emitted from a pulsed light source is 70 percent or more; and

forming a semiconductor layer and an insulating layer overlapping with the semiconductor layer between the glass substrate and the light-absorbing layers; and

performing a heat treatment for the semiconductor layer and the insulating layer by selectively heating the light-absorbing layers layer through the irradiation of the pulsed light irradiation.

5. (Currently Amended) A method for manufacturing a semiconductor device comprising the steps of:

forming an island-like divided semiconductor layers layer over a glass substrate having an insulating surface;

forming a light-absorbing layer that overlaps with a whole surface of each of the semiconductor layers layer through an insulating layer and whose end portions are arranged outside of each of the semiconductor layers layer; and

performing a heat treatment for each of the semiconductor layers layer and the insulating layer by selectively heating the light-absorbing layer through pulsed light irradiation.

6. (Currently Amended) A method for manufacturing a semiconductor device comprising the steps of:

forming a first insulating layer over a glass substrate having an insulating surface:

forming an island-like divided semiconductor layers layer over the first insulating layer;

forming a second insulating layer covering a top face and a side face of each of the semiconductor layers layer;

forming a light-absorbing layer over the second insulating layer, the lightabsorbing layer that covers the top face and the side face of each of the semiconductor layers layer and whose end portions are arranged outside of each of the semiconductor layers layer;

performing a heat treatment for each of the semiconductor layers layer and the insulating layer by selectively heating the light-absorbing layer through pulsed light irradiation; and

forming a gate electrode overlapping with each of the semiconductor layers layer by forming a metal layer over the light-absorbing layer and then performing an etching step.

7. (Currently Amended) A method for manufacturing a semiconductor device comprising the steps of:

forming an island-like divided semiconductor layers layer over a glass substrate;

forming a light-absorbing layer that overlaps with a whole surface of each of the semiconductor layers layer through an insulating layer and whose end portions are arranged outside of each of the semiconductor layers layer; and

performing a heat treatment for each-of the semiconductor layers layer and the insulating layer by selectively heating the light-absorbing layer through a plurality of times of pulsed light irradiation.

8. (Currently Amended) A method for manufacturing a semiconductor device comprising the steps of:

forming an island-like divided semiconductor layers layer over a glass substrate whose transmission factor of pulsed light that is emitted from a pulsed light source is 70 percent or more;

forming a light-absorbing layer that overlaps with a whole surface of each of the semiconductor layers layer through an insulating layer, whose end portions are

arranged outside of each of the semiconductor layers layer, and whose transmission factor of the pulsed light is 70 percent or less; and

performing a heat treatment for each of the semiconductor layers layer and the insulating layer by selectively heating the light-absorbing layer through a plurality of times of the pulsed light irradiation.

- 9. (Original) A method for manufacturing a semiconductor device according to any one of Claims 1 to 8, wherein the light-absorbing layer is formed from a metal nitride.
- 10. (Original) A method for manufacturing a semiconductor device according to any one of Claims 1 to 8, wherein the pulsed light is coherent light.
- 11. (Original) A method for manufacturing a semiconductor device according to any one of Claims 1 to 8, wherein the pulsed light is coherent light that has a pulse width of from 10 to 100 nanoseconds.
- 12. (Currently Amended) A method for manufacturing a semiconductor device according to any one of Claims 1 to 8, wherein the pulsed light is non-coherent light [[with]] that has a pulse width of from 1 to 100 microseconds.
- 13. (Original) A method for manufacturing a semiconductor device according to any one of Claims 1 to 8, wherein a light source of the pulsed light is a pulsed laser oscillator.
- 14. (Original) A method for manufacturing a semiconductor device according to any one of Claims 1 to 8, wherein a light source of the pulsed light is a xenon flash lamp.

15. (Original) A heat treatment method comprising the steps of:

forming and patterning a light-absorbing layer over a glass substrate having an insulating surface such that a length of one side of the light-absorbing layer is equal to or less than a thickness of the glass substrate;

providing an object to be heated that is arranged inside of the light-absorbing layer, between the glass substrate and the light-absorbing layer; and

performing a heat treatment for the object to be heated by selectively heating the light-absorbing layer through pulsed light irradiation.

16. (Original) A heat treatment method comprising the steps of:

forming and patterning a light-absorbing layer whose transmission factor of pulsed light is 70 percent or less such that a length of one side of the light-absorbing layer is equal to or less than a thickness of a glass substrate over the glass substrate whose transmission factor of the pulsed light that is emitted from a pulsed light source is 70 percent or more;

providing an object to be heated that is arranged inside of the light-absorbing layer between the glass substrate and the light-absorbing layer; and

performing a heat treatment for the object to be heated by selectively heating a region where the light-absorbing layer is formed, through the pulsed light irradiation.

- 17. (Original) A heat treatment method according to Claim 15 or 16, wherein the light-absorbing layer is formed from a metal nitride.
- 18. (Original) A heat treatment method according to Claim 15 or 16, wherein the pulsed light is coherent light.
- 19. (Original) A heat treatment method according to Claim 15 or 16, wherein the pulsed light is coherent light that has a pulse width of from 10 to 100 nanoseconds.

- 20. (Currently Amended) A heat treatment method according to Claims Claim 15 or 16, wherein the pulsed light is non-coherent light [[with]] that has a pulse width of from 1 to 100 microseconds.
- 21. (Original) A heat treatment method according to Claim 15 or 16, wherein a light source of the pulsed light is a pulsed laser oscillator.
- 22. (Original) A heat treatment method according to Claim 15 or 16, wherein a light source of the pulsed light is a xenon flash lamp.